View from the Dunes

Summer 2001

The Official Publication of Sleeping Bear Dunes National Lakeshore

Free



View of Sleeping Bear Dunes National Lakeshore from the shore of Lake Michigan

What's Inside?

Things To Do2
Park Fee Schedule2
Volunteers 2
Campgrounds3
General Mgmt. Plan4
Working Together 4
Feeding the Gulls4
Sleeping Bear Hear5
Sleeping Bear Inn5
Park Map 6
Stocking Scenic Drive7
Hiking the Scenic North 7
Manitou Islands 8
Backpacking9
Are There Any Bears?9
Preserve Hist. Sl. Bear 10
Resource Management 10
Friends of Sleeping Bear 11
Contacts 12
Operating Hours 12

Greetings from the Superintendent

Welcome to Sleeping Bear Dunes National Lakeshore. We are one of five National Park System units in the state of Michigan.* The Dunes, as it is sometimes called, has served the recreational needs of visitors for more than 30 years now, and is one of the most frequently visited National Park System units in the midwest.

The year 2001 is the beginning of our fourth decade of sun, sand and service, and is notable for three anniversaries. The U.S. Life-Saving Service, predecessor of the U.S. Coast Guard, established Life-Saving Stations on North Manitou Island in 1876, on South Manitou Island in 1901, and at Sleeping Bear Point that same year. All three stations now serve the public as part of the Lakeshore; on the islands as ranger stations, and in Glen Haven (Sleeping Bear Pt.) as a maritime museum.

The U.S. Congress preserved the dunes for the benefit of future generations of Americans because of its significant natural and cultural resources. Sculpted by receding glaciers several thousand

years ago, the hills, forests, lakes and streams, along with their resident plants and animals, provide an excellent classroom for observing the natural world and learning how we can do our part to care for it.

As you travel through the Lakeshore, you will also notice the effect of people, both ancient and modern, on the landscape. These cultural resources include archeological sites, old farmsteads, maritime facilities that serviced Lake Michigan, and the remnants of towns where lives and livelihoods were enjoyed.

We encourage you to talk with our uniformed staff and volunteers if you have questions or need assistance. Enjoy your stay at Sleeping Bear Dunes National Lakeshore!

Dan Krieber Acting Superintendent

* Isle Royale National Park, Keweenaw National Historical Park, North Country National Scenic Trail, and Pictured Rocks National Lakeshore

National Park Service Sleeping Bear Dunes National Lakeshore 9922 Front Street Empire, MI 49630-9797 (231) 326-5134 **First Class Mail**

For the enjoyment of all of our visitors, new and returning alike!

Postmaster: Do Not Return

Fun Things to See & Do While Visiting Sleeping Bear Dunes!

⊠Tour the Pierce Stocking Scenic Drive

On M-109 between The Dune Climb and Highway M-22, the 12 km (7.4 mi) Scenic Drive will provide one of your most memorable experiences in the park. Beautiful picnic areas, hiking trails and world-class vistas await you around every curve!

⊠Climb the Sand Dunes!

Head for The Dune Climb! Located on M-109 just south of Glen Haven, this 60 m (200-foot) hill of pure, soft sand begs to be climbed, rolled down and repeated numerous times! It is the perfect place for kids to expend some pent-up travel energy... and for adults to be kids again, too! Be sure to visit The Dune Center while you're there.

⊠Help with a Life-Saving Rescue

Raggedy Ann and Andy are sailing Lake Michigan when they are caught in a sudden storm and need your help! Quick! Head for the old Coast Guard Station (the Maritime Museum) and help the ranger rescue them! This exciting reenactment of the daring rescues performed by the U.S. Life-Saving Service happens every afternoon during the season.

⊠Join a Ranger Guided Nature Walk

There are numerous Ranger led activities during the summer months that will delight and educate kids and adults alike. Interaction with the Rangers will always provide a highlight for your trip.

From late June through Labor Day we invite you to join the rangers for nightly campfire programs that will be presented at both mainland campgrounds. These programs are not only for campers, but also for all other park visitors. The programs each highlight a different aspect of the natural or cultural history of the area.

On many nights there will be an "early show" and a "late show". The earlier program is generally designed for families with children, who may have an earlier bedtime in mind. The later program usually incorporates a slide show and must wait for dusk to begin. Check at any park facility for starting times and subjects.

For programs given at the Platte River Campground, parking is available at the Ranger Station lot. The amphitheater is reached by paved trail or stairway at the left end of the lot. Inquire at the Ranger Station for directions to handicap accessible parking behind the amphitheater.

For programs given at the D.H. Day Campground, parking is available by the log cabin at the rear of the campground. From there it is a short walk on the loop road to the amphitheater on the right.

⊠Be a Junior Ranger!

Stop at the Visitor Center in Empire to obtain your Junior Ranger Workbook (\$150). Complete the fun challenges throughout your visit and bring it back to the Visitor Center for your free Junior Ranger Patch!





NEW National Parks Pass!

The new National Parks Pass is an excellent way to support America's National Parks while receiving good value for your travel dollars. Valid for one year from date of purchase \$50.00

The 'Golden' Passport Programs

The Federal government offers "passports" that are valid for a wide variety of facilities. These 'Golden' passports admit the cardholder and their party (within one noncommercial vehicle) to most National Parks, monuments, historic sites, recreation areas and national wildlife refuges that charge an entrance fee.

Golden Age Passport

US Citizens 62 and over, (Lifetime): \$10.00

Golden Access Pass.

For Disabled US Citizens: **Free**

Golden Eagle Passport

any age, valid for one year from the date of purchase: \$65.00

VIP's Make a Difference!

Americans have enjoyed a love affair with their National Parks since Yellowstone, the first National Park in the world, was created in 1872. Now you can help care for your parks by joining the 70,000 people nationwide who volunteer their time and talents each year.

At Sleeping Bear Dunes in 2000, 458 VIP's (Volunteers-In-Parks) donated 21,073 hours of work, with an estimated value of \$312,513. VIP's have assisted in many facets of park operations. Whether acting as campground hosts, operating visitor centers and museums, or performing structural or trail maintenance, volunteers have provided invaluable and necessary support.

To apply for a VIP position, fill out the application form found in the "Volunteers" brochure that is available at park visitor facilities, and mail it to or drop it off at park headquarters in Empire. The Volunteer Coordinator will review your application and pass it along to the park supervisor who has work that best fits your skills and interests.

Many thanks to all of the VIP's!

2001 Fees at a Glance

Sleeping Bear Park Pass \$7.00 per vehicle, valid from 1 to 7 days

Sleeping Bear Annual Pass \$15.00 valid January 1 to December 31

Commercial Tours

Passenger Vehicle	(1-6)\$25.00
Van (7-15)	
Mini-Bus (16-25)	
Motorcoach (26+)	\$100.00

School Groups

Fees for bona fide educational groups (public & private schools) are waived with prior application to the park.

Please place your vinyl annual pass on the inside of the windshield on the driver's side. All other passes should be displayed on the driver's side of the dashboard in plain view. The only time that you need a pass to be on your person is when you are visiting one of the Manitou Islands. Thank you!

Why Entrance Fees?

The National Lakeshore is being cared for today and preserved for future generations by the American people. This dual objective of use and preservation comes at a price: protecting our natural and cultural heritage while ensuring that everyone has a safe, enjoyable and educational experience costs money.

Even as the number of visitors to National Parks continues to climb due to the increased popularity of these national treasures, government funding available for facilities and services has not kept pace with demand. In 1996, to address these needs, Congress directed the U.S. Department of the Interior to implement the Recreation Fee Demonstration Program. The program will help spread some of the costs for managing these lands among those who use them.

Managing our public lands is a major financial investment. While most of that investment comes from the general tax base, those who use these areas for recreation derive a greater benefit from - and place a greater burden on resources than the public at large. These new fees redistribute that burden so that users pay an increased share of the costs.

Eighty percent (80%) of the new fees will remain in the park where they are collected, with the remainder being distributed to other parks as needed. The money collected at Sleeping Bear Dunes National Lakeshore will be used for:

- Repairs and improvements to roads, trails, buildings and campgrounds.
- Improved signs and exhibits.
- ♦ Educational programs, guided walks and hikes, and other visitor activities.
- ♦ Natural habitat protection.
- Stabilization and restoration of historic structures.
- ♦ Visitor Safety and protection.

The future of these public lands rests with all American citizens. The action we take today will reflect the price we are willing to pay to pass these lands on to future generations, protected and in better health. We need and welcome your support.

Thank you!







Camping at Sleeping Bear Dunes National Lakeshore



Evening Program Amphitheater at Platte River Campground.

Sleeping Bear Dunes National Lakeshore Campground Reservations				
Becometions Asserted Beginning	For the Time Period			
Reservations Accepted Beginning	From	То		
January 5	May 5	June 4		
February 5	June 5	July 4		
March 5	July 5	August 4		
April 5	August 5 September			
May 5	September 5	October 4		
June 5	October 5 October 8			
Sleeping Bear Dunes N.L. Campground reservations can be made via:				
Toll Free:	(800) 365-2	267 (CAMP)		
Internet:	http:\\reservations.nps.gov			
Note: Campground reservation dates vary, see table below for more information.				

The National Lakeshore offers a variety of camping opportunities for drive-in camping on the mainland and for backpacking both on the mainland and on the Manitou Islands. The campground list includes a rustic drive-in campground and a modern drive-in campground with electric campsites, non-electric campsites, group campsites and walk-in campsites. See pages 8 and 9 for more information about backpacking.

Whether tenting, RV'ing or requiring facilities for large groups, we can provide the perfect match for your needs. No matter what your choice is, camping at Sleeping Bear Dunes will provide a memorable experience that will leave you wanting to come back for more!

With 179 sites, **Platte River Campground** is open year round. In a wooded setting, Platte River offers a variety of campsite types, including: non-electric, electric, handicap, walk-in and group campsites. Amenities include paved roads and parking pads, potable water, heated restrooms, token-operated showers, an RV dump station, firewood concession (May 15 through Sept. 30), evening programs and a ranger station. Platte River Campground is located two and two-tenths miles from Lake Michigan. Reservations are accepted for roughly one-third (see table below) of the campsites.

Considered rustic, **D.H. Day Campground** has 88 campsites surrounded by forest. Facilities include gravel roads and parking pads, potable water, vault toilets, an RV dump station, and a fee collection station. Located near Glen Arbor, Michigan, D.H. Day Campground is located only one-quarter mile from Lake Michigan. No reservations are accepted for D.H. Day Campground.

D.H. Day Group Campground is located just north of the Dune Climb on Michigan State Route M-109. Also considered rustic, reservations are available for D.H. Day Group Campground's four sites.

Campground Information at a Glance								
Campground / Site Type	Number of Sites	Number of People	Number Reserved	Annual Stay Limit	Reservations Dates	Max. Trailer Length	Cost w. Golden Age	Cost
		D.H. [Day Camp	ground				
D. H. Day Campground is located on Michigan State Route M-109 one mile west of Glen Arbor, Michigan. Considered rustic, D. H. Day Campground offers a quiet setting with gravel roads, vault toilets, water taps and evening programs. It is in a peaceful wooded setting with easy access to Lake Michigan.								
D.H. Day Individual	88	1-6	0	14 Days	None	35'	5.00	\$10.00
D.H. Day Group	4	7-25	4	14 Days	5/25 - 9/3	Tent Only	N.A.	\$30.00
		Platte F	River Cam	pground				
	Platte River Campground is located near the Platte River ten miles south of Empire, Michigan off State Route M-22 on Lake Michigan Road. The modern campground offers paved roads and parking areas, restrooms, showers, a dump station and electrical hookups in many sites.							
Platte River Non-Electric	53	1-6	10	14 Days	5/25 - 9/3	35'	7.00	\$14.00
Platte River Electric	96	1-6	27	14 Days	5/25 - 9/3	35'	12.00	\$19.00
Platte River Group	4	7-25	4	14 Days	5/25 - 10/8	Tent Only	N.A.	\$40.00
Platte River Group - Handicap	1	7-25	1	14 Days	5/25 - 10/8	Tent Only	N.A.	\$40.00
Platte River Walk-in	25	1-6	6	14 Days	5/25 - 9/3	Tent Only	\$5.00	\$10.00

For Backpacking on the Mainland and the Manitou Islands...

...see pages 8 & 9 for information about backpacking campgrounds. Also, there is information about traveling to the Manitou Islands via passenger ferryboat service provided by the Manitou Island Transit Company.

LAKESHORE GENERAL MANAGEMENT PLAN UNDERWAY

It has been over 20 years since the development of the first General Management Plan (GMP) for Sleeping Bear Dunes National Lakeshore. To ensure that the Lakeshore can continue to protect its special resources and provide meaningful visitor experiences in the future, the National Park Service has embarked on the development of a new GMP.

The new plan will provide a 20-year framework for making management decisions about protecting Lakeshore resources while providing for use and enjoyment by visitors.

During the course of this two-year process, we are asking a number of fundamental questions: What should we be doing to ensure that visitors continue to have a quality experience while visiting the Lakeshore? What levels and types of use are appropriate for the Lakeshore? How should we manage the Lakeshore's natural resources as well as its cultural resources?

Creation of the plan is following a logical, systematic process with four key steps:

- Collect data and identify issues (Winter 1999 -Spring 2000)
- Develop and evaluate alternatives (Summer 2000
 Winter 2000)
- Prepare and publish a draft plan/EIS (Spring 2001 - Summer 2001)
- Revise and publish the final plan (Winter 2002)

We invite you to help us find answers to the above questions and determine the future of Sleeping Bear Dunes National Lakeshore.

Your views are important to us. At various points in this two-year planning process we have been and will be asking for participation and input from the general public (both locally and nationally), the State of Michigan, other federal agencies, and special interest groups. The public may participate in this process by reviewing and commenting on newsletters and the draft and final plans, as well as participating in public meetings.

Newsletters were distributed in Fall 1999 and Spring 2000; The next newsletter will be published in April 2001.

A series of public open houses are scheduled for June, 11, 2001 at the Lansing Holiday Inn, on June 12, 2001 at the Traverse City Public Library and on June 13, 2001 at the Sleeping Bear Dunes Lakeshore Visitor Center in Empire.

Updated GMP information, including newsletters and the draft plan, are being placed on the Lakeshore's website, *www.nps.gov/slbe*, during the planning process. Comments may be made at any time in the planning process by writing us at Superintendent, Sleeping Bear Dunes National Lakeshore, 9922 Front Street, Empire, Michigan 49630; calling us at 231-326-5134; or emailing us at slbe_gmp@nps.gov.

WORKING TOGETHER BRINGS ABOUT CHANGE

Sleeping Bear Dunes National Lakeshore became a National Park in October 1970. Prior to the establishment of the park, several home sites, gravel roads and gravel pits dotted the landscape. Thirty-one years later, most of these disturbed areas are still evident and contain non-native materials such as gravel fill for driveways, exotic plantings or foreign soil for lawns and gardens.

Last summer, Maintenance and Resource Management staff began restoring several of these disturbed sites along Lake Michigan Road in the Good Harbor Bay area. The restoration efforts included removing non-native soil such as clay or topsoil when located in a dune environment, removing gravel driveways, eradicating non-native plants, contouring the site so it took on a "natural appearance", and planting native plants from the park's native plant nursery. The removed fill was placed in former gravel pits to initiate restoration efforts in those areas as well. Follow-up monitoring of each restored site will continue for several years to determine the effectiveness

of our restoration efforts and to continue controlling nonnative plants.



Why should we care about restoring previously disturbed sites? Won't Mother Nature take her course and eventually restore the land? To a degree the answer is yes. Plants will begin to fill in the disturbed areas, but non-native plants typically grow in areas where foreign soils remain and those soils are usually so compacted that only invasive plants are vigorous enough to grow. Also, the soil will never revert to native, therefore, the only way to get rid of it is to physically remove it. Another factor to consider is that any linear (driveway/road) or large (house site) break in the tree canopy provides a perfect avenue for species like the brown-headed cowbird. This bird seeks out open areas where it can parasitize or take advantage of other birds' nests by

rolling out the eggs and laying their own eggs. This



way the cowbirds don't have to incubate or feed their young, the other adult birds unknowingly do it for them. Studies have also shown that once an ecosystem has been restored, reproductive activity of the associated native species increases, sometimes by as much as 50%.

The initial results of the park's restoration efforts have been very encouraging. We plan to continue this effort for the next several years and will be restoring former house sites along North Bar Lake beginning in spring 2001.

If you would like to learn more about this project or even help us plant newly restored areas, please call:

Sleeping Bear Dunes N.L. (231) 326-5134

Feeding the Gulls (and other waterfowl) Can be Harmful to Your Health

We all see articles explaining how some of our favorite foods or activities turn out to be harmful to our health, but who would ever suspect that feeding birds could be harmful to our health? Well it's true, especially if you or others intend to swim in water near feeding sites.

Visitors to the Park are often seen feeding gulls, swans, ducks and other birds on beaches of Lake Michigan or any of the inland lakes contained in the park. The sight of a flock of birds swirling around one's head, looking for the next handout, can be quite a thrill.

The fact of the matter is that those same birds leave their droppings where the feeding takes place. Those droppings eventually get concentrated into our lakes and streams. We know it is there because is shows up when we test for *E. coli.* bacteria. Sleeping

Bear Dunes water quality staff monitor the water for a variety of things, but one of the most important is *E. coli*. What exactly is *E. coli*? *Escherichia coli* or *E. coli*, is a fecal coliform bacterium. Animals (and humans) contain *E. coli* in their digestive tracts. It is used as an indicator when we check for water quality.

High numbers of *E. coli* suggest the presence of other, more harmful, bacteria. There is always the potential of finding some *E. coli* in the waters, because this is part of a natural functioning ecosystem. Feeding waterfowl causes concentrations of these droppings to be left where the rest of us would often like to swim.

Once in our water, it can come in contact with humans who swim there and could cause them to become ill. The most common human illness associated with this type of *E. coli* is diarrhea. Other forms of *E. coli* can be much more deadly.

By testing Lakeshore waters for several years, we have found the highest levels of *E. coli* in our inland lakes, during or immediately following rainfall or wind. Wind stirs up silt near the shoreline. Rainfall washes the animal or bird droppings into adjacent water.

The highest levels are usually found near the shore, and drop off as one proceeds into deeper water. Overcast days generally cause the *E. coli* bacteria to last longer; sunlight kills it off. So if you are thinking of swimming on a cloudy day following a rain shower, and the wind has whipped up some waves near the shoreline, you may be asking for trouble.

Sleeping Bear Hear

By Cindy Shapiro

People who are hard of hearing WHO ASK FOR AN AMPLIFI-CATION DEVICE will be pleased to receive assistive listening devices on loan. These devices filter background noise and provide the amount of increased volume that the listener chooses. This sound equipment is available for the listener who wants to hear what the tour guide is explaining. Even people with minimal or no hearing loss will be interested to hear the clear sounds that the FM wireless and hardwired systems offer.

In addition to amplification devices, the Visitor Center offers a portable TTY on request which can be used

with the public phone inside the Visitor Center.

Are you interested in hearing and learning about Sleeping Bear Dunes National Lakeshore and the Legend of the Sleeping Bears? Special programs sponsored at the campgrounds along with visitor center walking tours educate and intrigue listeners about the natural beauty and folklore of the land and water.

Now the opportunity for total hearing accessibility as a result of compliance with the hard of hearing components of the Americans With Disabilities Act, is here for the asking. At Sleeping Bear Dunes National Lakeshore Visitor Center, all spoken tours and most events can

now be heard by groups of people who are hard of hearing. A wireless assistive listening device will be available IF and ONLY IF visitors phone in advance or request one at Philip A. Hart Visitor Center front desk.

In addition to the listening equipment for walking tours and special programs at the campgrounds, the registration desk is also equipped with a small hardwired listening device. This is for times when the visitor center is noisy due to the echoing and rise and fall of conversation by other visitors.

Questions will be answered at the registration desk by staff using the amplification device. A headset, earphone or a neckloop, are available with both the hardwired and wireless listening systems for

people with sensitivity to background noise. Cochlear implant users need to supply their own patch cords.

Several reminders and tips for those who plan to use the assistive listening equipment:

- 1. It is extremely helpful to phone well in advance so that the equipment can be prepared for and transported to the location where it will be needed.
- 2. Arrive early to allow yourselve extra time for trying out the system.
- 3. Determine the earpiece that will work best with the receiver that you will be given so that you can to find out which one works best for you.

Sleeping Bear Inn's Vertical Plank Construction



The Sleeping Bear Inn, located in Glen Haven.

vertical plank construction? The park didn't either, until some exterior siding was removed and repaired during the last painting in 1994. The park discovered that typical 2x construction had not been utilized in the original portion of the building. Instead of framework, the walls were completely infilled with full height doubled 1 1/2" planks nailed into the hewn sills. The planks range in size from 10-24 inches, and are attached with cut nails into the hewn sills at each floor.

Vertical plank construction is a building technique found in France and Scandinavia and was brought to this area via the French Cana-

The shortage of skilled labor in the area also encouraged the requirement of "simplification of joinery." The advantages of plank frame construction included replication of identical parts, easy layout, eliminating attachment difficulties with diagonal braces, and the absence of posts with their many mortises for girts, nailers, and braces. It took no longer to saw a plank than a sheathing board, but the plank served as post, stud, and brace.

Information on vertical plank construction is scarce and examples are hard to find. The building's shape or style is not a tip-off to its

Did you know that the front pordians. This type of construction is construction. In fact, most oldtion of the structure is built with historically inherent to the devel- house owners only discover this technique when they begin major repairs or open a wall, as the park

> The most common and earliest version of vertical plank construction was used to fashion walls in hewntimber frame houses without studs and sometimes without braces. The builder would attach wide randomwidth boards, 1 1/2" to 3" thick, that ran vertically from plate to sill through one or two stories. Originally, during the 17th and 18th century, locally milled planks were fastened to the sill and plate with wooden pegs. The later history saw the use of inexpensive cut nails replacing the wooden pegs. The placement of doors and windows

in vertical plank construction were addressed after the house was framed. Windows and doors would be cut into the planks, and lintels and headers were installed over these openings. Clapboard or shingles were easily nailed to the exterior wall for cladding. Interior lath for plastering was attached directly to the planks.

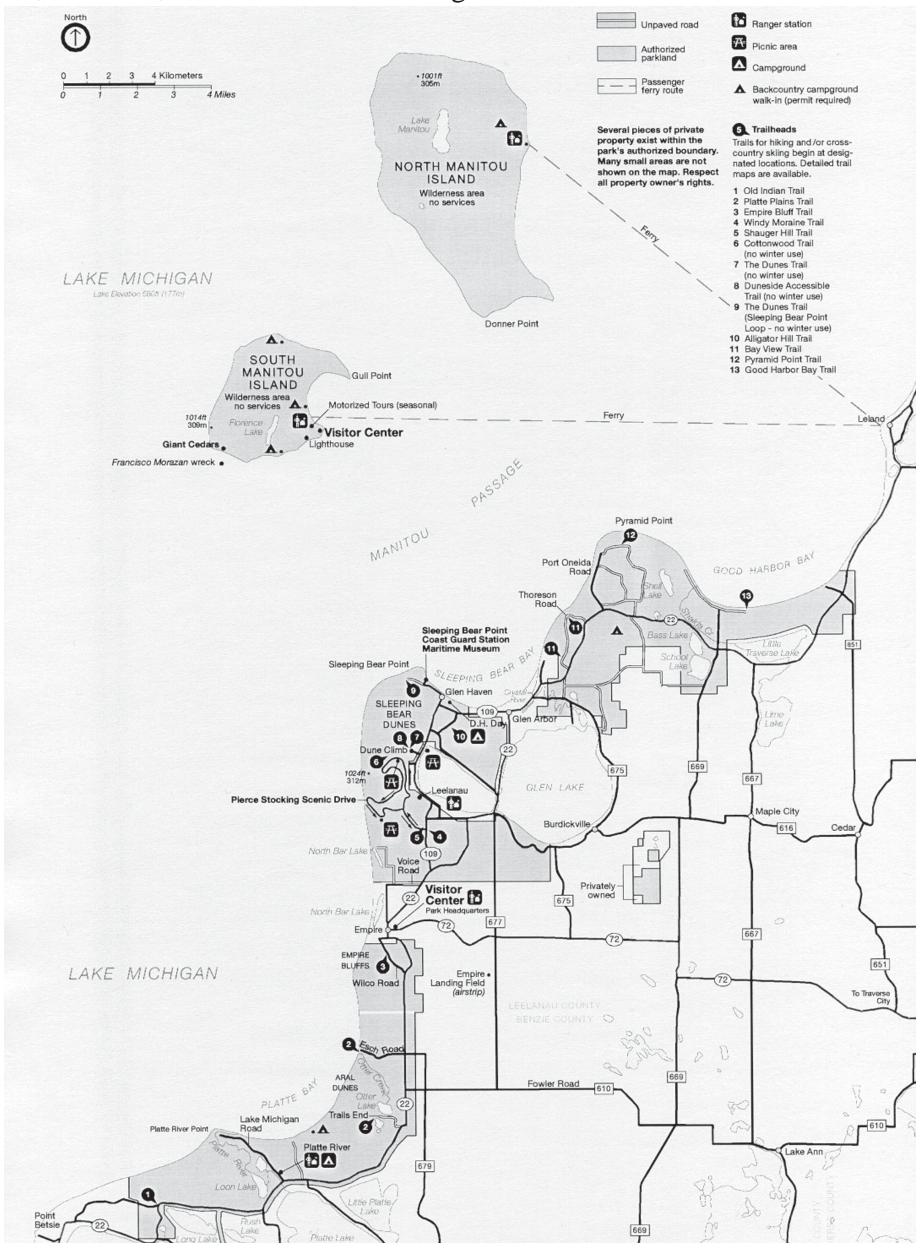
Wallpaper was applied directly over the boards or over muslin. Interior partitions were also made with planks. Rough corner posts and beams were visible and prominent; they were often encased in finished lumber, painted, or covered with wallpaper.

Although this system of supporting walls and roof with planks seemingly defies all common sense and good construction practices, existing examples remain sturdy and in good repair. Buildings that date from the 17th and 18th centuries clearly document the use of vertical plank construction throughout the northeastern United States and Canada. The technique traveled as the population expanded west and south. This simple form of construction moved not only as part of the builder's skill, but also in popular architectural pattern books and trade magazines, and represented one of many techniques available to use.

The arrival of circular saws in the mid-nineteenth century and the difficulty in finding large logs helped end plank framing. The circular saw made available the large quantity of small dimensional lumber and made balloon framing economical. Lumber mills and additional skilled labor made balloon framing more feasible and in turn, vertical plank construction was made part of history.

Sleeping Bear Dunes National Lakeshore

This park map indicates the location of all 13 hiking trails, the Pierce Stocking Scenic Drive, the Dune Climb and other popular areas of the park. Major roads are shown for reference. The National Lakeshore consists of 71,000 acres, 34 miles of Lake Michigan shoreline and the Manitou Islands.



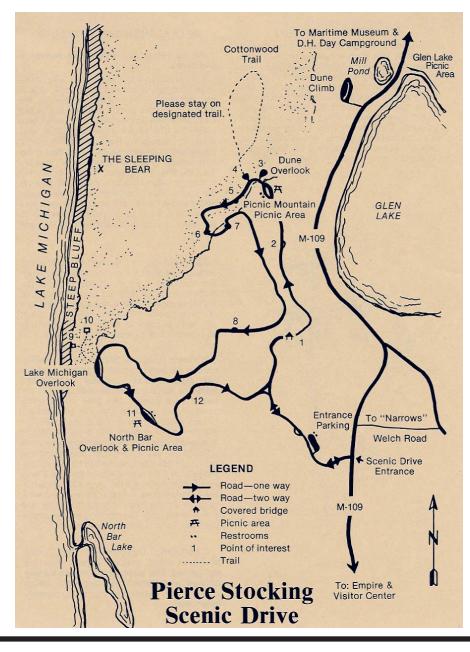
Pierce Stocking Scenic Drive

The Stocking Scenic Drive is a 12 kilometer (7.4 mile) scenic route that will take you to spectacular overlooks of Lake Michigan and the Sleeping Bear Dunes. Two picnic areas are also available for your use.

Please obey the 32 kph (20 mph) speed limit and drive carefully so that motorized vehicles, bicycles and pedestrians can share this roadway safely. Stops along the drive (see map to right) include:

- 1. The Covered Bridge
- Glen Lake Overlook
- 3. Dune Overlook
- 4. Cottonwood Trail
- 5. Dune Ecology
- 6. Leaving the Sand Dunes
- The Beech-Maple Forest
- 8. Changes Over Time
- 9. Lake Michigan Overlook
- 10. Sleeping Bear Overlook
- 11. North Bar Lake Overlook
- 12. Pine Plantation

Bicycling is permitted along the drive. Cyclists should use the right side of the road. This is a challenging bicycle tour with some steep uphill and downhill grades. Also, consider your ability before starting. If you arrive carrying your bicycle on your car, you can park at the parking area near the entrance to the drive and begin your bicycle tour there. Bicycle racks are provided for your convenience at three



major overlook parking areas: the Dunes Overlook (#3 on the map above), the Lake Michigan Overlook (#9 and #10), and the North Bar Overlook (#11.) The road has some steep uphill and downhill sections. Keep your bicycle under control. If you need to walk your bicycle, be sure to stay within the marked bicycle lane.

There are pulloffs where cars may cross the lane at some of the numbered points of interest on the map. Use caution as you approach these pulloffs. Ride single file. Follow the direction of travel. Obey the speed limit and other rules of the road. Watch for pedestrians who share the lane. Remember that motorist often have difficulty seeing cyclists. Ride defensively.

Piece Stocking (1908-1976)

As a lumberman, Pierce Stocking spent his youth in Michigan's forests. He loved the woods and spent most of his spare time there, developing a self-taught knowledge of nature. He used to walk the bluffs above Lake Michigan, awed by the views of the dunes, Lake Michigan and the Manitou Islands. He wanted to share this beauty with others and conceived the idea of a road to the top of the dunes. As a lumberman he had built roads in difficult terrain before. Planning began in the early 1960's, and in 1967, the road (known as Sleeping Bear Dunes Park) first opened to the public. Stocking continued to operate the scenic drive until his death in 1976.

Hiking the Scenic North

by Mary Sharry

"A thousand mile journey begins with the first step." So goes the proverb. So, too, does a journey into and beyond oneself begin with that first insight-seeking step; and that, for me, is why I hike. It is on these treks that I seem to find solace or resolution. Ideas spring forth. I commune with no one but Nature.

When I think in terms of hiking, I envision gear: backpack, expensive boots, wool socks, map and compass. By those standards I am but a poor walker clad in ancient running shoes and clothing that has long lost its shape as well as labels. What I am rich in, though, is energy for the trails within the Sleeping Bear Dunes National Lakeshore.

One of my favorite trails is

a three -quarter mile walk from my house to the trailhead. The mile and a half out and back hike along the Empire Bluff trail takes me through diverse vegetation which includes springtime leeks, trout lilies, dutchman's breeches, and trilliums. Different species of ferns provide baroque elegance beneath the beech and maple forest.

The view of Lake Michigan might offer a look at freighters making their way through the Manitou Passage. An occasional gift is the sight of an eagle in flight or the call of a loon on the water far below. On my return to the trailhead I carry with me the refreshment of spirit given by the view of Lake Michigan from the steep bluff.

right outside the village of Empire, or even a run, the road to North Bar

Lake from the blinker light on M-22 and M-72 is a flat six miles out and back. Situated off LaCore Road, Bar Lake Road carries a feeling of space and freedom offered in the open fields along the way to pristine North Bar Lake making a worthwhile venture, best done on a cool, dry day under a sky filled with billowing clouds.

Speaking of skiing, Alligator Hill is my wintertime favorite: a great uphill workout followed by an enjoyable, easy descent. Come springtime, early morning light filters softly through cool mist and shimmers with the flutter of newly folded leaves. Last year's pine needles and acorn caps lie scattered about the forest floor. On a hot summer day raspberry fragrance beckons beyond the trailhead. The sight of Autumn's glorious maples calls soon after.

Windy Moraine is a simple one and a half mile loop which I've found soulfully restorative in the evening - particularly towards sunset when low angled light filters through the forest and across an

When sounds of traffic cease, woodland silence seems deep and endless. Birdsong can make me momentarily forget outside noises; so rich are the liquid, flute-like songs of the veery and the wood

Purple shadows lengthen as light of day fades to twilight. Although sunset cannot be seen from the trail, the stillness and atmosphere are felt, and the forest becomes embraced in the mystery of night. On the night of a recent full moon I hiked this small path. A white birch stood out as if electrified in the dark forest. A bench placed long ago before a giant sugar maple made me wonder how many bottoms have sat there. Who else comes to contemplate the wonder of it all?

There are many excellent views of Lake Michigan from trails within the National Lakeshore -Pyramid Point near Port Oneida comes to mind as does the Bay View trail off Thoreson Road outside of Glen Arbor. Both are hilly and well worth the hike.

My usual brisk walk becomes an amble or stroll on the Duneside Accessible trail, a recent favorite. entered from the north end of the Dune Climb off M-109. The trail is less than two miles, round trip, flat and designed to accommodate wheelchairs and the visually impaired. The woods at the base of the dunes are often damp, and a woodland pond is easily viewed from a platform which invites lingering looks at the vegetation and occasional turtles enjoying the sun.

For a good distance hike, although I've never walked all three loops in one day, the Platte Plains trail covers fourteen-plus miles. It lies south of Empire and includes a loop around Otter Lake which offers a varied mix of vegetation (the blueberries make a great trail

I am glad the National Park calls these trails hiking trails. The word gives a profound tone to my simple walks. Someday I may gear up and hike the Michigan Shoreto-Shore trail, which starts/ends outside of Empire -- but that will be a different journey.

The Trails of Sleeping Bear Dunes N.L.

1. Old Indian, two loops	4.0 km (2.5 mi.) each
2. Platte Plains, three loops	23.6 km (14.7 mi.) total
3. Empire Bluff, hilly woods	. 2.4 km (1.5 mi.) round trip
4. Windy Moraine, hilly	2.4 km (1.5 mi.) loop
5. Shauger Hill, hilly woods	3.9 km (2.4 mi.) loop
6. Cottonwood, rolling dunes	2.4 km (1.5 mi.) loop
7. Dunes, trek to Lake Michigan	. 5.6 km (3.5 mi.) round trip
8. Duneside Accessible, flat	. 2.9 km (1.8 mi.) round trip
9. Dunes Trail, Sleeping Bear Point	4.5 km (2.8 mi.) loop
10. Alligator Hill, horses permitted, 3 lo	oops 4-5 km (2.3-3 mi.) each
11. Bay View, several loops	11 km (7 mi.) total
12. Pyramid Point, panoramic view	4.3 km (2.7 mi.) loop
13. Good Harbor Bay, flat, wet in place	s 4.5 km (2.8 mi.) loop

Trail Numbers are for the map on Page 6

Heading for the Manitou Islands!

The lure of the Manitou Islands is irresistible for many lakeshore visitors. As guardians of the Passage, North and South Manitou have beckoned to a wide variety of people throughout the course of their history.



Today, people are drawn to the islands for equally diverse reasons: some wish to experience the solitude and remoteness of an island; some enjoy the human history that is a major factor in the islands' stories; yet others seek the wilderness experience that is afforded them.

Whether the lure for you is geological, botanical, historical, or purely recreational, the islands are sure to thrill you! Transportation to the islands can be provided either by private craft or commercial, walk-on passenger ferry operated by Manitou Island Transit in Leland. The ferry operators have been involved in servicing the islands for many generations; the company is still operated as a family business today. The passenger ferries leave from the Fishtown docks in Leland, one

The lure of the Manitou Islands is ferry bound for each island. For irresistible for many lakeshore visitors. As guardians of the Island Transit at (231) 256-9061.

South Manitou Island

The *Mishe-Mokwa* sails for South Manitou and after a five hour layover, returns to Leland. This gives day-use visitors ample time to time to explore the various trails on the island and to take advantage of the motorized village tour (also operated by the ferry company).

ou Island Mokwa
9:15 a.m.
10:00 a.m.
11:30 a.m.
4:30 p.m.
6:00 p.m.

Visitors can enjoy a tour of the 100 foot tall lighthouse, which guided



There are approximately 22 miles of trail to help you explore the island. You can experience the majesty of the old-growth cedars as well as speculate on the fate of the *Francisco Morazan*, a visible shipwreck dating from November, 1960.

ships through the southern portion

of the Manitou Passage, one of the

most dangerous on Lake Michigan.



Many shipwrecks, including the *Morazan* and the recently uncovered *Three Brothers*, attract divers and snorkeling enthusiasts. The shipwrecks are protected as part of the Manitou Passage State Underwater Preserve.

Many private boaters take advantage of the picturesque harbor to anchor their boats and explore the island's interior or just relax on the beautiful beaches.

A notice to boaters: Set your anchor with wind shifts in mind. Squalls and passing weather fronts can create damaging wind conditions! While both islands may be accessed by private craft, docking is limited to 30 minutes (for loading and unloading purposes) and there are no fuel facilities.

North Manitou Island

The *Manitou Isle* sets its course for North Manitou where passengers disembark and cargo is off-loaded. The ferry reloads and returns directly to the mainland.

North Manitou Island m/v Manitou Isle				
Check-In	9:15 a.m.			
Leave Leland	10:00 a.m.			
North Manitou	11:15 a.m.			
North Manitou	11:30 p.m.			
Arrive Leland	12:45 p.m.			

The number of trips to North Manitou Island vary throughout the season. Contact Manitou Island Transit for more information. As you disembark on the North Manitou dock you enter the historic Coast Guard village, recently designated a National Historic Landmark.



For Passenger Ferry reservations, contact Manitou Island Transit at: 231-256-9061 For Information: www.leelanau.com/manitou/

Upon leaving the village, nearly 15,000 acres of pristine wilderness



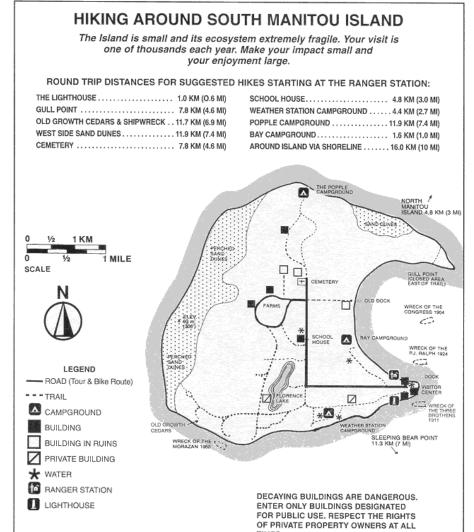
await to test you and your low-impact camping skills. With 41.5 km (25 mi.) of maintained trails and countless "unmaintained" trails to explore, the wilderness adventure you've always hoped for awaits. Exploratory possibilities range from abandoned farmsteads to beautiful inland lakes (Lake Manitou and Tamarack Lake) and steep terrain unparalleled in northwest lower Michigan.



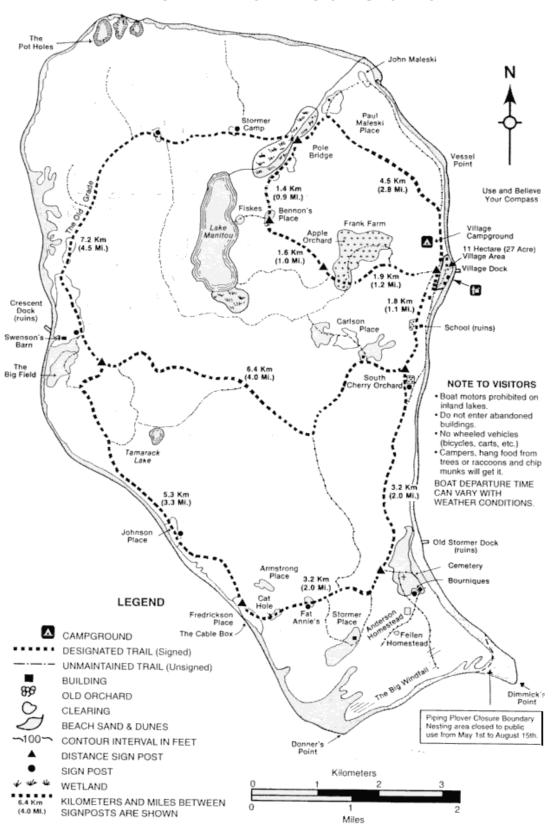
Lake Manitou's trophy smallmouth bass population offers sportsmen a unique fishing opportunity and there is a special fall Deer Hunt. Contact park headquarters early for your hunter's application!

Both islands are managed as wilderness areas, therefore the level of protection is elevated. Fires are allowed **ONLY** in the metal fire rings provided in the backcountry campgrounds. North Manitou campers must camp at least .1 km (300 feet) from any water source.

As with any Lakeshore facility, all visitors to either island, whether arriving by commercial ferry or private vessel, are required to have a park entrance pass.



North Manitou Island



Sleeping Bear Backcountry Camping at a Glance Cost w. Reservations Number Number Number Stay Campground / Site Type Golden Cost of Sites of People Reserved Limit **Dates** Age **Mainland Backcountry** There are two hike-in backcountry campgrounds on the mainland areas of Sleeping Bear Dunes. White Pine is located within the Platte Plains Trail system in the southern area of the National Lakeshore. Valley View is located east of Glen White Pine Backcountry \$2.50 \$5.00 14 Davs

Valley View Backcountry 14 Days \$2.50 \$5.00

South Manitou Island

There are three campgrounds located on South Manitou Island. Bay Campground is locted within 1/2 mile of the passenger ferry boat on South Manitou Island. Weather Station Campground is approximately 3/4 mile from the dock and Popple Campground is six miles from the dock. Camping is limited to these three campgrounds.

Bay Campground Individual	22	1-4	0	14 Days	N.A.	\$2.50	\$5.00
Bay Campground Group	3	7-20	3	14 Days	5/26 - 10/10	N.A.	\$20.00
Weather Station Campground	17	1-4	0	14 Days	N.A.	\$2.50	\$5.00
Weather Station Group	3	7-20	3	14 Days	5/26 - 10/10	N.A.	\$20.00
Popple Campground	6	1-4	0	14 Days	N.A.	\$2.50	\$5.00

North Manitou Island

Located eight miles from Leland, Michigan in Lake Michigan, North Manitou Island is reached by passenger ferry or private boat. There are eight campsites in the Village Campground. Wilderness camping is allowed on North Manitou Island within certain restrictions (out of view of a trail, 100 yards from water). Please check with a ranger for a complete

Village Campground	8	1-4	0	14 Days	N.A.	\$2.50	\$5.00
North Manitou Wilderness	400 People	7-10	0	14 Days	N.A.	N.A.	\$10.00

Backcountry Camping on the Mainland

Besides the campgrounds on the Manitou Islands, there are two backpacking campgrounds on the mainland: White Pine and Valley View.

WHITE PINE CAMPGROUND

The White Pine Backcountry Campground is located in the Platte River District, about 2.5 miles north of the Platte River Campground. It has six sites that are available on a first-come, firstserved basis. A backcountry camping permit is required and is available at the Platte River Ranger Station. During the winter months campers should obtain their permits at the Visitor Center in Empire. Plan to pack in your water as there is no well at the campground.

VALLEY VIEW CAMPGROUND

This campground is not as well-known as White Pine and may be available when all other campgrounds at Sleeping Bear Dunes National Lakeshore are full. If you're interested in getting away to a secluded spot to camp, this is your camp. This campground has five sites and is located by a meadow at the end of a 1.5 mile trail which runs steeply uphill from a parking area along Hyland Road, 2 miles from Glen Arbor. There are no wells, lakes or streams close to the camp, so plan to pack in all of your water.

ALL BACKCOUNTRY CAMPSITES ARE LIMITED TO 4 PEOPLE AND 2 TENTS.

PETS AND BICYCLES ARE NOT PERMIT-TED AT THESE CAMPGROUNDS.



Are There Any **Bears at Sleeping Bear Dunes?**

An obvious question, and one that is frequently asked by visitors. The answer is...occasionally. The Black Bear (Ursus americanus) is native to the lower peninsula of Michigan, but needs a consideragle amount of territory to roam in its search for food, shelter and mates. Although the Lakeshore is many miles long, it is relatively narrow. For this reason any bears that wander into the park may stay for a while, but then eventually wander back out again. Chances are that you won't see one, but you never know!



"Committed to preserving the historical structures, cultural landscapes and archeology within Sleeping Bear Dunes National Lakeshore."

PRESERVE HISTORIC SLEEPING BEAR

...farmsteads, barns and other cultural resources are symbolic of all that is disappearing in America

Who we are:

The public's recognition of the importance of the cultural landscapes within the Sleeping Bear Dunes National Lakeshore (SLBE) inspired the founding of Preserve Historic Sleeping Bear (PHSB). Taking action became imminent with the realization that there



were insufficient federal funds to preserve this spacious time capsule of historic farmsteads, barns and maritime cultural resources. The National Lakeshore was poised to tear down these historic structures, many of which were in a state of decay, until the public expressed a strong desire that these cultural resources be valued, preserved, stabilized and maintained.

With the opportunity at hand to save—or lose forever—these historic treasures, in 1998 Preserve Historic Sleeping Bear entered into partnership with the National Lakeshore to develop and implement a Historic Properties Management Plan, raise critical funds to stabilize and maintain the farmsteads and

other historic structures and help identify potential partners for buildings to be adaptively reused in ways consistent with the National Lakeshore's management of natural, cultural and recreational resources. PHSB continues to raise public awareness of the value of preserving cultural resources to support their inclusion in the General Management Plan which the National Lakeshore is currently revising. This Plan will guide the management and development of SLBE over the next 20 years. Public meetings are being held to keep the public apprised of the status of the plan and to receive their input.

What we are preserving:

The Port Oneida Rural Historic District is a priority in our preservation efforts. It is perhaps one of the only historically intact agricultural communities in the nation in public ownership. Here lies the story of the first Euro-settlers in the area who moved to the mainland from North Manitou Island. The Glen Haven community is important because it tells the story of fishing, logging and canning activities in the 1800's. The National Lakeshore is currently restoring the blacksmith shop and the D.H. Day Store in Glen Haven, but much preservation work remains. South of Empire are additional historic places, such as the Ken-Tuck-U-Inn, the Boekeloo Cabin and the Esch Farm that have been identified for restoration. North and South Manitou Islands have lifesaving stations, sawmills, lighthouses, cottages and farmsteads that are included in the scope of our restoration efforts. Lake Michigan, Great Lakes shipping, the forests, fisheries,

agriculture and modern day recreation of South and North Manitou Islands and the Port Oneida area are an interwoven relationship of nature and history. We would like the beauty and history of these places to be preserved for all to enjoy now and in future generations.

"The energy and efforts of Preserve Historic Sleeping Bear have directly and indirectly resulted in over 40 projects benefiting cultural resources throughout the Sleeping Bear Dunes National Lakeshore." Ivan D. Miller - Former Superintendent

Accomplishments:

Over the past year and throughout this summer, PHSB will have assisted with the cleanup, stabilization or preservation efforts of the following structures and

August Beck Barn and Schoolhouse on South Manitou Island; Franklin Newhall Cottages, Pickers Quarters, Katie Shepherd Hotel& Cottage Row on North Manitou Island; Ken-Tuck-U-Inn; the Schoolhouse, Thoreson Farmstead, Martin Basch Farmstead, Garthe Barn, Brunson Barn, Charles Olson Farmstead, & Carstens Burfiend Farmstead at Port Oneida; the Kropp Granary, Shalda Log Cabin, Treat Farm, Wing Cottage, & Howard Olsen site.

Coming Up:

There is much work left to do on these and many of the other 200 plus historic buildings within the Park. This summer PHSB will be hosting volunteer work projects, presentations about the cultural resources, and tours. Our schedule of events will be available at the Park Headquarters and posted at our exhibit at the Dune Climb. We look forward to your support at public meetings, work projects, as a donor, or at our educational presentations and tours!

Preserve	Historic	Slee	ping	Bear

I am interested in supporting the preservation of historic structures and cultural landscapes of Sleeping Bear Dunes National Lakeshore.

Please send me information on Preserve Historic Sleeping Rear

T rease series me my	ormanion on I reger to III.	one steeping Bear
Name:		
Address:		
City:		ZIP:
Phone:		
1 110110.		-

You will receive our brochure, newsletter and schedule of events. PHSB also welcomes tax-deductible donations payable to PHSB. Send this form to:

> Preserve Historic Sleeping Bear P.O. Box 453, Empire, MI 49630 231-334-6103 phsb@leelanau.com

The Resource Protection Corner

Like many lakes near the shore of wind is present making the exposed eliminate all of the impacts. In the To prevent such a tragedy is the Lake Michigan, North Bar Lake began as a bay of the big lake. North Bar Lake is the only one Due to the popularity of the North necessary to protect the fragile Lake Michigan that remains connected and unaltered.

Separating Lake Michigan from North Bar Lake are small dunes and beach shoreline. It has long been a popular location for water and beach activities. The water of North Bar provides a warmer welcome to swimmers than the waters of Lake Michigan.

Children often play in the outlet of North Bar Lake due to its shallow depth and warmer temperature. In addition, people have the choice to use the shoreline of either Lake Michigan or North Bar Lake. This is especially relevant when a strong

beach unpleasant.

along the entire eastern shore of Bar area, facilities were upgraded to provide a convenient and safe access to the area, and also to protect the critical dunes from the consequences of frequent visitor use.

> The dunes between North Bar Lake and Lake Michigan were showing tremendous wear and tear from the frequent summertime human activities. As the fragile dune grass was trampled, the dunes began blowing away. For this reason in 1999 the dune area between North Bar Lake and Lake Michigan was closed to

> A rope fence was installed and signs were erected to make visitors aware of the closure. Unfortunately, the rope fence and signs did not

spring and summer of 2000, strict enforcement of the closure became North Bar dunes.

Why take such an extreme measure? Shouldn't all of the National Lakeshore remain open for public use? One of the reasons that the National Lakeshore was created was to preserve and protect the natural resources of the area. Dunes are some of the most unique and fragile features in the Park.

The fact that the North Bar area is so popular necessitated more stringent protection of the dunes, while still allowing for visitor use on the stable beach areas. If the North Bar dunes were to ever be trampled to the extent that wind would carry them away, the likelihood is that North Bar Lake would disappear.

reason for the barrier fencing and signs, as well as fines. Park rangers and volunteers have transplanted native dune grass to the severely eroded areas to begin the natural recapture of sand particles and rebuilding of the dune structure.

The temporary snow fence installed in 1999 is slowing the wind down and allowing the windborne sand to repair the damage. Each fall, more dune grass will be transplanted to help nature recover from years of overuse. If we all do our job and respect the dunes, they will eventually return to a more pristine and natural condition. North Bar Lake will continue to be a popular location for recreation, and the very things that make the North Bar area so special will remain, forever.



Friends of the Sleeping Bear Dunes

Dedicated to Assisting in the Preservation, Restoration, and Interpretation of the Natural, Cultural, Historical, and Recreational Resources of Sleeping Bear Dunes National Lakeshore

Notes on the History and Purpose of Friends of the Sleeping Bear Dunes, Inc.

From the Constitution and Bylaws...

Article 1, Purpose 1

The Friends of the Sleeping Bear Dunes shall be an independent, freestanding organization created exclusively for charitable and educational purposes, including the making of financial distributions to assist with historical, educational, scientific, interpretive and recreational activities of Sleeping Bear Dunes National Lakeshore. This organization will seek to cooperate with Sleeping Bear Dunes National Lakeshore in the following areas:

A. To assist Sleeping Bear Dunes National Lakeshore in restoring, preserving, developing and interpreting its cultural, historical and natural resources for the benefit of the public and posterity. It will not be this organization's function to set or to influence National Park Service policies.

B. To recommend and assist in the development and/or presentation of special events and other efforts to preserve and interpret Sleeping Bear Dunes National Lakeshore and its natural and cultural resources.

1994 File Letter...

A core group of people with interest in forming a group called Friends of the Sleeping Bear Dunes met on April 7, 1994. Those in attendance were Dr. G. Franklin Zaring, John Abbett, Paul Benington, and William Merry. The following resolution was passed: "It is hereby resolved that it is the sense of this meeting that the Friends of the Sleeping Bear Dunes, Inc. shall now be formed exclusively for charitable and educational purposes, including the making of fund distributions to assist with historical, educational, scientific, interpretive and recreational activities of the Sleeping Bear Dunes National Lakeshore."

The Fist Public Meeting...

On May 4, 1994, at a public meeting attended by 20 people, Friends of the Sleeping Bear Dunes, Inc. was established.

Projects Completed: 1994-1999

In the first year of the Friends existence, the following projects were completed or started:

Summer, 1994 - Replacement of deck and boardwalk on Lake Michigan Overlook #9 on Pierce Stocking Scenic Drive.

Spring, 1995 - Replanting maple trees along M-109 and Day Farm Road near D.H. Day Farm. Fall, 1995 - Begin a 3-year project to restore

Fall, 1995 - Begin a 3-year project to restore D.H. Day Campground.

Fall, 1995 - Clearing brush at view sites on the Pierce Stocking Scenic Drive.

Since that first year, Friends volunteers have aided the park in the following projects:

Rehabilitation of Lake Michigan Overlook #10 on the Scenic Drive.

Pruning of historic fruit trees in designated historic orchards in the park.

Trail patrol through Adopt-A-Trail program.

Acquisition of grants for renovation of the D.H. Day
Log Cabin, the Cannery boat display at Glen
Haven, restoration of Glen Haven D.H. Day Store,
and Cottonwood Trail on the top of the dunes off
the Pierce Stocking Scenic Drive.

Painting of the Olsen house on M-22 in cooperation with Preserve Historic Sleeping Bear.

Volunteers from the Friends also take part in leading natural history walks, bird census, leading bus tour

Uniqueness of the Friends

Sleeping Bear Dunes National Lakeshore is fortunate that more than 700 people annually do volunteer work for the park. Among these are many members of Friends of the Sleeping Bear Dunes. All volunteer activity is appreciated by park personnel because it helps in the achievement of the goals for which the park was established.

People often ask, "What do the Friends do to help the park that differs from general volunteer work?" One of the main differences is that the Friends can obtain and administer grants and memorial funds which individuals, companies, or other organizations wish to provide for the benefit of the park. Sometimes individuals are unable to do this. The tax-exempt status of the Friends makes it possible for individuals to make gifts of cash or property (physical items as well as real estate) and allow the donors of such items to claim legitimate tax deductions. The 501(c)(3) status of the Friends is clearly a benefit to the park which ultimately receives these gifts.

continued from column 1...

groups on Pierce Stocking Scenic Drive, staffing the Visitor Center desk, the Maritime Museum and the Cannery boat display in Glen Haven. They also have helped park internal operations by filing documents and helping keep the library materials shelved properly. Other volunteers have assisted in map-making projects, helping maintain the park's archival photo collection, and in many other ways.



One of the major friends projects was the restoration of the campground and facilities at D.H. Day Campground near Glen Haven. The Log Cabin has become a facility used for many purposes.

Adopt-A-Trail to Continue

The year 1999 was the first full year for the Adopt-A-Trail program sponsored by Friends of the Sleeping Bear Dunes. The purpose in sponsoring this project is to help park personnel patrol the many miles of trails on the mainland. Sixteen trails or segments of trails are patrolled by 12 individuals and their spouses and four separate organizations. The organizations presently involved are Sleeping Bear Realty of Empire, Consumers Energy Retirees Association, Grand Traverse Audubon Club, and Friends of the Sleeping Bear Dunes.

Volunteers on the trails have many jobs. They pick up litter, remove branches and small limbs that fall on the trail, clip back brush that grows into the trail, and generally check on the condition of the trail and trail signs. A reporting system is in place if a volunteer finds a problem on the trail that requires work by park employees. The volunteer is to give as much specific information as possible when reporting a problem. For example, if a tree is down across a trail this will require a chain saw. The volunteer needs to report how large the diameter of the tree is because the size of tree dictates the size of saw used and the size of the work crew needed. Volunteers do not use power tools on the trail but they can use hand tools.

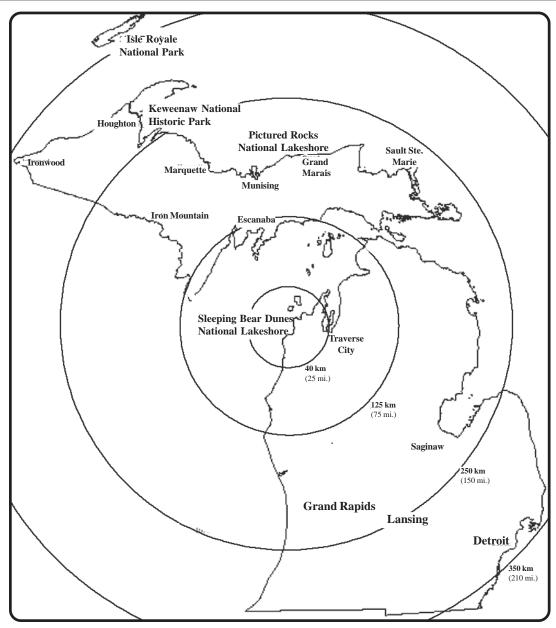
The park administration of Sleeping Bear Dunes National Lakeshore has requested that the Adopt-A-Trail program continue for another year because it has proven very helpful. So, with a few minor adjustments in our reporting system, Friends of the Sleeping Bear Dunes is ready to continue with Adopt-A-Trail for the year 2001.

FRIENDS Membership Applica	ation
----------------------------	-------

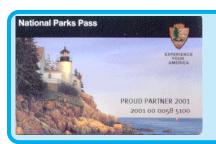
Individual Memberships:	()\$20	Additional Contribution \$
Family Memberships:	()\$40	Additional Contribution \$
Business/Corporate Members:	()\$100	Additional Contribution \$
Name(s)		
Summer Address:		Phone:
Winter Address:		Phone:

Please make checks payable to: **Friends of the Sleeping Bear Dunes, Inc.**P.O. Box 6344, Traverse City, MI 49696

ALL CONTRIBUTIONS ARE TAX-DEDUCTIBLE



Mileage from various points in Michigan to Sleeping Bear Dunes National Lakeshore



Get Your

National Parks Pass

at the

Philip A. Hart Visitor Center

Sleeping Bear Dunes National Lakeshore

2001 Hours of Operation

The park is open 24 hours a day, year-round, but certain facilities have specific hours and dates of operation which should be noted.

Facility	Summer	Winter	
Philip A. Hart Visitor Center M-72, Empire, Michigan	Daily Memorial Day through Labor Day Weekend 9:00 a.m. to 6:00 p.m.	Daily 9:00 a.m. to 4:00 p.m. Closed on Holidays	
Dune Climb	24 Hours - Year-round		
Dune Center Bookstore	May 15 through May 24 10:00 a.m. to 4:00 p.m.	Closed	
	May 25 through September 3 10:00 a.m. to 6:00 p.m.	Closed	
	September 4 through October 15 10:00 a.m. to 4:00 p.m.	Closed	
Stocking Scenic Drive	April 21, through November 11 9:00 a.m. to 10:00 p.m. or 1/2 hour after sunset.	Closed	
Maritime Museum	May 26 Through September 4 10:00 a.m. to 6:00 p.m.	Closed	

For Emergency Assistance, call:

911



Serving America's National Parks and Other Public Trusts

Visit our bookstores within the park for all your shopping needs.

Philip A. Hart Visitor Center

(near the junction of M-72 and M-22) 9922 Front Street Empire, MI 49630

Dune Center Bookstore

At the Dune Climb on M-109 north of Empire, Michigan

National Park Service

Sleeping Bear Dunes National Lakeshore 9922 Front Street, Empire, MI 49630-9797 (231) 326-5134

"...Congress finds that certain outstanding natural features, including forests, dunes, beaches, dune formations, and ancient glacial phenomena, exist along the mainland shore of Lake Michigan and on certain nearby islands... and that such features ought to be preserved in their natural setting and protected from developments and uses which would destroy the scenic beauty and natural character of the area. ...to accomplish this purpose for the benefit, inspiration, education, recreation, and enjoyment of the public... in a manner which provides for recreational opportunities consistent with the maximum protection of the natural environment within the area."

Local Business Information Available on the Web

If you are seeking information and assistance in planning your trip, you may now access our local Chambers of Commerce and Visitors' Bureaus on the World Wide Web. Internet access is quick and easy using the hyperlinks within the Lakeshore's homepage, www.nps.gov/slbe. You will be able to access information on things to see and do, along with lodging and dining listings.

Benzie County Chamber of Commerce

www.benzie.org (231) 882-5801

Glen Lake/Leelanau County Area

www.leelanau.com/glenlake (231) 334-3238

Leelanau County Chamber of Commerce

www.leelanauchamber.com (231) 256-9895

Manitou Island Transit

www.leelanau.com/manitou/(231)256-9061

Traverse City Chamber of Commerce

http://www.tcchamber.org/ (231) 947-5075

Traverse City Convention & Visitors' Bureau www.tcvisitor.com (231) 947-1120